

## For the Record

### Allele Frequencies for the CODIS Core STR Loci in Connecticut Populations\*

Carol A. Scherzinger, Ph.D.,<sup>1</sup> Jennifer L. Hintz, M.S.,<sup>1</sup>  
 Brian J. Peck, M.S.,<sup>2</sup> Michael S. Adamowicz, Ph.D.,<sup>1</sup>  
 Michael T. Bourke, Ph.D.,<sup>1</sup> Heather M. Coyle, Ph.D.,<sup>1</sup>  
 Carll Ladd, Ph.D.,<sup>1</sup> Nicholas C. S. Yang, M.F.S.,<sup>1</sup>  
 Bruce Budowle, Ph.D.,<sup>3</sup> and Henry C. Lee, Ph.D.<sup>1</sup>

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<sup>1</sup> Connecticut State Police Forensic Science Laboratory, 278 Colony Street, Meriden, CT.

<sup>2</sup> Cuyahoga County Coroner's Office, 110011 Cedar Avenue, Cleveland, OH.

<sup>3</sup> Forensic Science Research and Training Center, FBI Laboratory, FBI Academy, Quantico, VA.

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We have generated a local STR database for the predominant population groups represented in Connecticut. DNA was extracted from known blood samples from at least 175 unrelated African-American, Caucasian, and Hispanic individuals using the QIAGEN QIAamp blood kit (1). DNA typing was performed using 1 to 2 ng of genomic DNA (25  $\mu$ L reaction volume) and automated fluorescent detection according to the manufacturer's protocol (2). Statistical analysis was performed as previously reported (3). Exact tests showed two departures from HWE expectations in the Hispanic population at D7S820 and D8S1179. After applying the Bonferonni correction for the number of tests, no significant departures were noted (3). The complete data set is available upon request.

### References

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Additional information and reprint requests:  
 Carol Scherzinger, Ph.D.  
 Connecticut State Police  
 Forensic Science Lab  
 278 Colony St.  
 Meriden, CT 06451

TABLE 1—Observed allele frequencies (%) in the African-American population (182 individuals).

Allele	D3S1358	vWA	FGA	D8S1179	D21S11	D18S51	D5S818	D13S317	D7S820	TH01	TPOX	CSF1PO	D16S539
5										0.549			0.275
6										11.264	6.868	0.275	
7							0.275		0.275	36.264	1.374	4.121	
8							6.319	2.473	21.978	22.253	38.736	7.418	3.846
9				0.549			2.747	2.198	12.912	17.857	19.78	3.022	21.429
9.3										10.714			
10				3.297		0.824	5.495	3.571	33.516	1.099	7.692	26.099	14.56
11		0.549		5.22		0.549	22.802	30.22	20.055		22.802	23.352	26.923
<12	0.275												
12	0.549	0.275		12.912		9.89	35.714	44.231	8.791		2.747	27.747	19.231
13	0.275	1.648		18.132		3.571	25	13.187	1.923			7.143	10.989
13.2							0.275						
14	9.615	4.945		31.044		5.22	1.374	3.846	0.549			0.549	2.473
15	28.846	20.604		21.703		18.681	0.275	0.275				0.275	0.275
16	35.165	25.275		6.868		17.033							
17	20.33	17.857	0.275	0.275		14.286							
17.2			0.275										
18	4.67	17.308	0.549			13.736							
18.2			1.374										
19	0.275	7.418	6.593			8.516							
19.2			0.549										
20		3.022	4.396			3.571							
21		0.824	11.813			1.923							
21.2						0.549							
22		0.275	16.209			1.374							
22.2			0.549										
23			18.956										
24			20.604										
25			9.066										
26			3.846										
27			3.571		6.593								
28			0.275		24.725								
29			0.275		19.231								
29.2					0.275								
30					16.484								
>30			0.824										
30.2					1.099								
31					9.615								
31.2					4.396								

(continues)

TABLE 1—Continued.

Allele	D3S1358	vWA	FGA	D8S1179	D21S11	D18S51	D5S818	D13S317	D7S820	TH01	TPOX	CSF1PO	D16S539
32					3.297								
32.2					6.044								
33					0.275								
33.1					0.275								
33.2					2.473								
34					0.824								
34.2					0.549								
35					3.846								
Obs. Homozygosity	26.9	12.6	12.1	18.1	9.3	12.1	24.7	35.7	24.7	24.7	22	23.1	20.9
Exp. Homozygosity	25.8	17.5	13.4	19.9	14.6	12.4	24.8	30.6	22.4	23.5	25.1	21.1	18.9
Homozygosity test*	0.721	0.083	0.607	0.542	0.046	0.905	0.983	0.137	0.442	0.7	0.336	0.507	0.485
Exact test*	0.148	0.267	0.235	0.868	0.764	0.882	0.255	0.214	0.523	0.95	0.405	0.72	0.922

\* These values are probability values.

TABLE 2—Observed allele frequencies (%) in the Caucasian population (179 individuals).

Allele	D3S1358	vWA	FGA	D8S1179	D21S11	D18S51	D5S818	D13S317	D7S820	TH01	TPOX	CSF1PO	D16S539
6										21.229			
7							0.559		1.676	16.76	0.559	0.279	
8				2.793			0.279	8.939	15.922	11.732	51.117	0.838	1.397
9				1.676			4.749	8.38	16.201	16.201	12.011	2.514	13.687
9.3										33.24			
10				8.659		1.117	5.587	6.425	26.257	0.838	6.145	26.536	5.307
11				10.056		0.838	35.754	33.24	21.508		26.257	35.754	28.771
<12	0.279												
12	0.279			12.291		13.966	37.151	29.888	16.48		3.911	25.698	26.816
13	1.117			33.52		14.246	13.687	9.777	1.955			6.983	22.346
14	8.939	10.056		19.553		15.084	1.955	3.352				1.117	1.676
15	29.888	12.57		8.38		16.201	0.279					0.279	
16	24.581	21.788		2.793		12.57							
17	20.67	25.14				10.894							
18	13.687	22.626	1.676	0.279		6.425							
19	0.559	6.704	6.704			5.028							
20		1.117	14.525			2.235							
20.2			0.279										
21			18.715			1.117							
21.2			0.279										
22			18.156										
22.2			0.559										
23			15.642			0.279							
23.2			0.559										
24			12.011										
25			6.425										
25.2					0.279								
26			3.631		0.279								
27			0.559		1.676								
28			0.279		13.687								
29					24.302								
30					26.257								
30.2					1.117								
31					6.704								
31.2					12.57								
32					0.838								
32.2					10.335								
33.2					1.955								
Obs. Homozygosity	20.7	14	12.3	21.2	18.4	12.3	30.2	22.9	17.9	21.2	33.5	19.6	26.8
Exp. Homozygosity	21.7	19	13.6	19	17.6	12.1	28.8	22.7	19.2	22.2	34.8	26.8	22.4
Homozygosity test*	0.734	0.085	0.612	0.445	0.777	0.954	0.695	0.96	0.644	0.765	0.715	0.029	0.161
Exact test*	0.936	0.482	0.745	0.475	0.714	0.343	0.694	0.563	0.749	0.163	0.26	0.145	0.157

\* These values are probability values.

TABLE 3—Observed allele frequencies (%) in the Hispanic population (187 individuals).

Allele	D3S1358	vWA	FGA	D8S1179	D21S11	D18S51	D5S818	D13S317	D7S820	TH01	TPOX	CSF1PO	D16S539
6										24.559	0.535		
<7							0.267						
7							5.615		1.07	24.332	0.535	0.267	
<8								0.267					
8				0.802			2.941	8.556	13.904	14.439	40.642	1.07	1.872
9				0.535			4.278	9.358	9.893	16.043	16.043	1.604	19.519
9.3										20.053			
10				9.091		0.267	5.615	5.882	32.086	0.535	5.882	25.668	9.358
11				6.417		1.604	33.69	25.401	24.332		27.005	30.749	26.203
11.1												0.267	
<12	0.535												
12				14.439		4.813	33.155	29.947	13.636		9.091	34.759	24.599
13		1.07		23.529		11.765	13.904	13.636	4.813			5.08	16.31
>13											0.267		
13.2						0.267							
14	6.15	6.684		24.332		15.775	0.535	6.952	0.267			0.535	2.139
15	31.551	14.439		18.182		17.914							
16	27.807	28.075		2.406		13.904							
17	16.845	25.401		0.267		12.834							
18	15.775	12.834	1.07			9.091							
18.2			0.267										
19	1.07	9.626	8.556			5.348							
>19	0.267												
19.2			0.535										
20		1.872	10.963			2.674							
21			12.299			0.535							
22			16.043			1.872							
23			13.369			0.802							
23.2			0.267										
24			13.102			0.535							
25			10.963										
26			6.952										
27			4.011		2.406								
28			0.267		12.834								
29			0.267		20.588								
30			0.535		22.995								
>30			0.535										
30.2					4.545								
31					5.615								
31.2					14.439								
32					0.535								
32.2					9.626								
33					0.267								
33.1					0.535								
33.2					3.743								
34.2					1.07								
35					0.535								
37					0.267								
Obs. Homozygosity	25.7	15.5	11.2	19.8	18.2	11.8	26.2	21.4	22.5	24.6	31.6	33.2	19.3
Exp. Homozygosity	23.2	19.3	11.2	17.9	14.7	11.9	25	19.5	21	20.4	27.4	28.2	20.1
Homozygosity test*	0.424	0.192	0.974	0.509	0.178	0.949	0.699	0.515	0.626	0.159	0.2	0.135	0.764
Exact test*	0.521	0.749	0.447	.005**	0.123	0.848	0.964	0.384	.037**	0.128	0.404	0.634	0.801

\* These values are probability values.

\*\* Departure from Hardy-Weinberg equilibrium.